

Appendix J
Kinder Morgan Operator Qualification Program
List of Covered Tasks – Kinder Morgan Liquids Terminals – Part 195
revised 1/24/2019

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	T-O&M Reference	DOT Part 195 Reference
101.01	Abnormal Operating Conditions – Outside of Control Room	3 yrs	Knowledge Test	Knowledge Test	N/A	1900	402a, 402f, 403
101.02	Abnormal Operating Conditions – Inside of Control Room	3 yrs	Knowledge Test	Knowledge Test	N/A	1101, 1102, 1900	402a, 402f, 403
102.01	Measure Structure-To-Soil Potentials	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	573a1
102.02	Advanced Cathodic Testing	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 1600	3, 573a 452h2, 571, 575, 577
102.03	Active Corrosion/MIC Testing	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	213, 268, 903	573a2, 452(h)
102.04	Maintain Cathodic Test Leads (ETSs)	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	567a, 567b, 571
102.05	Read Rectifier	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	573c
102.06	Use of Current Interrupters on Rectifiers	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	573a2
102.07	Adjust Rectifier	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	573c, 573e
102.08	Maintain Rectifier	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	573c, 573e
102.09	Atmospheric Corrosion – Inspection of Coatings	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	203, 903, 918	583b, 583c
102.10	Atmospheric Corrosion – Surface Preparation	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:5	203, 903	581a, 581b, 581c2, 559, 561
102.11	Atmospheric Corrosion – Application of Coatings	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:5	203, 903	581

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102.12	Electronic Holiday Detection	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	203	561
102.13	External Coatings on Buried or Submerged Components – Application and Repair	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:5	203, 903	559, 561
102.14	Cathodic Protection Remediation	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	563, 565, 567, 575 576e, 577, 585
102.15	Internal Corrosion – Control Injection Rate	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 906	579
102.16	Internal Corrosion – Monitor Injection Rate	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 906	579
102.17	Internal Corrosion – Insertion and Removal of Probes and Coupons	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 906	579
102.18	Internal Corrosion – Monitoring Probes	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 906	579b, 579c, 579d
102.19	Internal Corrosion – Inspect Internal Pipe Surfaces	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903, 906	579c
102.20	Inspect Aerial Indicator on Rectifier	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	Not Performed by Terminal Employees	573c
102.21	Inspect and Perform Electrical Test of Bonds	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	903	577a, 577b
102.22	Reserved for Future Use						
102.23	Monitoring of Vapor Corrosion Inhibitor System – Tanks (KMLT Only)	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	927	573d

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102.24	Visual Inspection of Buried Pipe and Components When Exposed	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	203, 204, 213, 268, 454, 903, 917	401c, 557, 559, 561, 583b, 583c
102.25	Visual Inspection of Internal Surface of Pipe	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	213, 906	579, 585
102.26	Evaluating Anomalies Using Handyscan 700® (new task - KMLT Only - effective 1/25/2019)	1 yr	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	213, 925	452(h), 587, 588(c)
103.01	Inspect Navigable Waterway Crossing	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	217	412b
103.02	Inspect Atmospheric Breakout Tanks – Monthly External In-Service	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	710, 918, 2101	264, 432a, 432b
103.03	Inspect Atmospheric Breakout Tanks – API 653 External In-Service	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	710, 2101	264, 432a, 432b
103.04	Inspect Atmospheric Breakout Tanks – API 653 Out of Service	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	710, 2101	264, 432a, 432b
103.05	Overfill Protective Devices – Manual Testing	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703, 704, 710	428
103.06	Inspect Pressurized Breakout Tanks – External Inspection	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	N/A for Terminal Facilities	264, 432a, 432b
103.07	Repair Pressurized Breakout Tanks	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	N/A for Terminal Facilities	205a, 205b1, 205b2, 205b3, 307, 432c
103.08	Reserved for Future Use						
103.09	Non-Destructive Testing of Welds	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Not Performed by Terminal Employees	228a, 228b, 234
103.10	Reserved for Future Use						

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	T-O&M Reference	DOT Part 195 Reference
103.11	Damage Prevention During Excavation Activities	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	204, 232	442
103.12	Inspection Activities – Welding on Pipeline System	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:0	406	234
103.13	Inspection Activities – Non-Destructive Testing	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	454	228a, 234
103.14	Conduct Dot Pipeline Pressure Tests	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	917, 1600	303, 304, 305, 306, 307, 308, 310
103.15	CPM Leak Detection	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	279	134, 444
104.01	Inspect Buried Pipe When Exposed	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	204, 268	403a, 442c6, 561, 569
104.02	Measure Damage on Pipe – Manual Measurement	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	213	585, 587
104.03	Measure Wall Thickness of Pipe – Ultrasonic Measurement	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	213	585, 587
104.04	Place and Maintain Permanent Line Markers	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:4	205	410
104.05	Inspect Surface Conditions of Right-of-Way	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	204, 215, 221, 1201, 1901	412a, 442,
104.06	Inspection Following Blasting	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	204	442
104.07	DOT Inspection of Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	301, 706	116, 258, 420b

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104.08	Moving In-Service Pipe	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	202	246, 403a, 424
104.09	Inspection of Clearance of Existing Pipe to Underground Structures	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	204	250, 403a, 442
104.10	Inspection of Support Structures on Existing Aboveground Components	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:4	213	110, 254, 403a
104.11	Backfilling An Excavation	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:3	213	108, 252, 403a
104.12	Composite Sleeve Application - ClockSpring®	1 yr	Knowledge Test and Performance Evaluation	Knowledge Test	1:0	201, 203, 213, 903	403a, 422, 585a2
104.13	General Pipeline Repair – Full Encirclement Sleeve	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	213, 280, 401, 402, 404, 405, 407, 407A	403a, 422, 585a2
104.14	General Pipeline Repair – Component Replacement	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	213, 240, 250, 1403	202, 422, 416f
104.15	General Pipeline Repair – Stopping	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	224	403a, 422
104.16	General Pipeline Repair – Hot Tap	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	224	403a, 422
104.17	Evacuation of Liquids from Pipe Using Inert Gas	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	226, 227, 234, 235, 236	402c10, 402c11, 403a, 422
104.18	Evacuation of Liquids from Pipe Using Liquid Flammable Gas	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	226, 227, 234	402c10, 402c11, 403a, 405, 422
104.19	Evacuation of Liquids from Pipe	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	213, 226, 227, 234	402c10, 402c11, 403a, 405, 422

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104.20	Safe Disconnecting of Abandoned Pipeline Facilities	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	220, 225, 226, 234	402c10, 11
104.21	Welding on Existing Pipeline Systems	1 yr	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	222, 402, 403, 404, 405, 455, 456	208, 214, 216, 222, 224, 226, 228, 230, 403a, 422
104.22	Locate Pipeline	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 205	422a, 442
104.23	Temporary Marking of Pipeline	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 205	442c2
104.24	Installation/Use of Vapor Barriers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	222, 226, 240	59, 402c10
105.01	Provide Security for Pipeline Facilities	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	510	258a, 264c, 420c, 434, 436, 438
105.02	Monitor by Remote Security Devices	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	510	258a, 408, 420c, 436
105.03	Breakout Tanks Static Protection – Line Velocity	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	1108	405a, 405b
105.04	Reserved for Future Use						
105.05	Reserved for Future Use						
105.06	Overfill Protective Devices – Knowledge of Tank Level Alarms	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703, 710	402c11, 403a3, 428a, 428b, 428c, 428d
105.07	Overfill Protective Devices – Response to Tank Level Alarms	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703, 710	402c11, 402e1, 403a4, 428a, 428b, 428c
105.08	Operations of Pipeline System – Start Pipeline	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501	402c7, 402c8, 402c9, 402d, 402e, 406, 408

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105.09	Operations of Pipeline System – Normal Shutdown from Normally Controlling Location	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223	402c7, 8,9, 402c8, 402c9, 402d, 402e, 406, 408
105.10	Operations of Pipeline System – Normal Shutdown from Location not Normally Controlling	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.11	Operations of Pipeline System – Emergency Pipeline Shutdown	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 1101	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.12	Operations of Pipeline System – Emergency Station Shut-In	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.13	Operations of Pipeline System – Unit Adjustment	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.14	Operations of Pipeline System – Tank Management	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	704, 1109	402c9, 402d, 402e, 408a
105.15	Operations of Pipeline System – Monitor Communications	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	1101, 1131	50, 55, 58, 402e1, 402e2, 402e3, 402e9, 408, 446
105.16	Operations of Pipeline System – Monitor Leak Detection and Line Integrity	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1030, 1101	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.17	Operations of Pipeline System – Monitor Flow Rates	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1102, 1105	402c9, 402d, 402e, 408
105.18	Operations of Pipeline System – Maintain Pressures within Allowable Limits	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	201, 1105	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.19	Operations of Pipeline System – Manually or Remotely Open or Close Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	223	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.20	Operations of Pipeline System – Operating Pressure Test	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	1106	402c7, 402c8, 402c9, 402d, 402e, 406, 408

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105.21	Launching and Receiving Internal Devices	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	235	426
106.01	Maintain and Repair Power Valve Actuators	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	301, 703, 706	420a, 420b, 420c
106.02	Preventive Maintenance Valve Actuators	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	706	420a, 420b, 420c
106.03	Lubricate Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	706	420a, 420b, 420c
106.04	Repair Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:2	706	116, 206, 420, 422b, 428
106.05	Overpressure Safety Devices – Inspect, Test and Calibrate Relief Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703	116, 206, 262c, 420, 422b, 428
106.06	Overpressure Safety Devices – Pressure Switches and Transmitters	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703, 704	262c, 428a
106.07	Pressure Limiting Devices – Inspect, Test and Calibrate Mechanical Control Valves	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703	428a
106.08	Pressure Limiting Devices – Inspect, Test and Calibrate Electronic/Electro-Hydraulic Control Loops	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703	428a
106.09	Overfill Protective Devices – Repair and Replacement	3 yrs	Knowledge Test and Performance Evaluation	Knowledge Test	1:1	703, 704, 710	428c